

ABSTRACT

A hub dynamo is compacted into a small diameter size while ensuring the generation of a high voltage of electric power. A coil chamber CR formed between a pair of main iron cores 10 is partitioned in the axial direction by three sub iron cores 11 to form a first, second, third and fourth coil chambers (CR-1, 2, 3 and 4); on these coil chambers (CR-1, 2, 3 and 4), one coil wire 13 is wound in order in a state that the winding direction changes alternately; and magnetic flux collectors 15 connected with the outer circumference of the main/sub iron cores 10 and 11 include a first magnetic flux collector 15 connected with the first, third and fifth iron cores (10-1), (11-3) and (10-5) and a second pole piece 15 connected with the second and fourth iron cores (11-2), (11-4), which are disposed alternately.